

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/007132

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 F16L37/091 F16L33/22

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 F16L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	EP 1 178 255 A (PEGLER LTD) 6 February 2002 (2002-02-06) column 2, line 56 - column 3, line 9 column 5, line 25 - column 7, line 8 column 7, line 22 - column 8, line 12; figures 2,3,3A,5	1-3,5,9, 10 4,6,8
Y A	DE 102 21 971 A (FRIATEC AG) 12 June 2003 (2003-06-12) cited in the application abstract; figure 1	1,3,4,9, 10 5,8
Y A	US 2003/067170 A1 (DOLE DOUGLAS R ET AL) 10 April 2003 (2003-04-10) paragraph '0049! paragraph '0063! figures 2,3	1,3,4,9, 10 2,5,6,8
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Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

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L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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* & * document member of the same patent family

Date of the actual completion of the international search

8 September 2004

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14/09/2004

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	FR 2 830 071 A (LEGRIS SA) 28 March 2003 (2003-03-28) page 4, line 23 - page 5, line 22; figure 1	1, 3-5, 9, 10
A	DE 85 36 760 U (SCHÄFER JOHANNES) 20 April 1989 (1989-04-20) figures 3, 4, 7, 8	3, 4, 6

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/007132

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 1178255	A	06-02-2002	EP 1178255 A2	06-02-2002
			GB 2365938 A ,B	27-02-2002
			GB 2395991 A ,B	09-06-2004
			GB 2395992 A ,B	09-06-2004
DE 10221971	A	12-06-2003	DE 10221971 A1	12-06-2003
			CA 2468656 A1	05-06-2003
			WO 03046429 A1	05-06-2003
			EP 1448927 A1	25-08-2004
US 2003067170	A1	10-04-2003	US 2002185868 A1	12-12-2002
			US 2002135184 A1	26-09-2002
			WO 2004046602 A1	03-06-2004
			WO 03089827 A2	30-10-2003
			US 2003071460 A1	17-04-2003
			TW 522206 B	01-03-2003
			WO 02057673 A2	25-07-2002
FR 2830071	A	28-03-2003	FR 2830071 A1	28-03-2003
			EP 1427959 A1	16-06-2004
			WO 03027562 A1	03-04-2003
DE 8536760	U	20-04-1989	DE 8536760 U1	20-04-1989